AMENDMENTS TO THE CLAIMS

1	1.	(Currently Amended) A computer-implemented method for buffering data in a
2		multithreaded environment, comprising:
3		reading a buffer index value that identifies a data buffer that was last used for
4		buffering data;
5		incrementing the buffer index value;
6		locating a buffer array entry that is associated with the buffer index value;
7		determining, at a particular time, whether the buffer array entry indicates a
8		particular value;
9	•	if the buffer array entry does not indicate the particular value at the particular
0		time, then, in response to a determination at the particular time that the
1		buffer array entry does not indicate the particular value, attempting to
2		obtain a lock on a particular data buffer that is associated with the buffer
3		array entry; and
4		if the buffer array entry indicates the particular value at the particular time, then
5		in response to a determination at the particular time that the buffer array
6		entry indicates the particular value, incrementing the buffer index value
7		without attempting to obtain a lock on the particular data buffer.
1	2.	(Previously Presented) The method of Claim 1, further comprising:
2		if the attempt to obtain the lock on the particular data buffer succeeds, then
3		updating the buffer array entry to indicate the particular value.
1	3.	(Previously Presented) The method of Claim 1, further comprising:
2		receiving a connection request from a client;
3		assigning a thread of execution to process said connection request; and

4		selecting a particular buffer management structure from a plurality of buffer
5		management structures, wherein said plurality of buffer management
6		structures are each associated with a set of data buffers that are used for
7		buffering data to a physical memory unit;
8		wherein the buffer index value is associated with the particular buffer
9		management structure.
1	4.	(Previously Presented) The method of Claim 1, further comprising:
2		generating log data in response to a request for accessing a resource, wherein said
3		resource represents one or more sets of content that are associated with a
4		network server; and
5		selecting a buffer management structure based on one or more addresses in which
6		said one or more sets of content are stored on said network server.
1	5-6.	(Canceled)
1	7.	(Previously Presented) The method of Claim 1, further comprising the step of
2		writing log data into said particular data buffer.
1	8-9.	(Canceled)
1	10.	(Previously Presented) The method of Claim 1, further comprising:
2		maintaining a plurality of data buffers as an array of available buffers; and
3		in response to detecting that the particular data buffer contains a particular limited
4		amount of free data space, removing said particular data buffer from said
5		array of available buffers.
1	11.	(Original) The method of Claim 10, wherein the step of removing said particular
2		data buffer from said array of available buffers further comprises linking said
3		particular data buffer into a list of ready-to-write data buffers.

1	12.	(Original) The method of Claim 11, further comprising.
2		removing said particular data buffer from said array of available buffers; and
3		storing on a non-volatile storage unit information contained in said particular data
4		buffer.
1	13.	(Previously Presented) The method of Claim 1, further comprising:
2		maintaining a plurality of data buffers as an array of available buffers; and
3		in response to determining that no data buffer is available in said array of
4		available buffers for storing said log data, requesting a free data buffer
5		from a global list of free data buffers.
	14-35.	(Canceled)
1	36.	(Currently Amended) A <u>tangible</u> computer-readable medium carrying one or
2	·	more sequences of instructions for buffering data in a multithreaded environment,
3		wherein execution of the one or more sequences of instructions by one or more
4		processors causes the one or more processors to perform the steps of:
5.		reading a buffer index value that identifies a data buffer that was last used for
6		buffering data;
7		incrementing the buffer index value;
8		locating a buffer array entry that is associated with the buffer index value;
9		determining, at a particular time, whether the buffer array entry indicates a
10		particular value;
11		if the buffer array entry does not indicate the particular value at the particular
12		time, then, in response to a determination at the particular time that the
13		buffer array entry does not indicate the particular value, attempting to

1		obtain a lock on a particular data buffer that is associated with the buffer
2		array entry; and
3	i.	if the buffer array entry indicates the particular value at the particular time, then,
4		in response to a determination at the particular time that the buffer array
5		entry indicates the particular value, incrementing the buffer index value
6		without attempting to obtain a lock on the particular data buffer.
1	37.	(Previously Presented) The computer-readable medium of Claim 36, further
2		comprising instructions for performing the steps of:
3		if the attempt to obtain the lock on the particular data buffer succeeds, then
4		updating the buffer array entry to indicate the particular value.
1	38.	(Previously Presented) The computer-readable medium of Claim 36, further
2		comprising instructions for performing the steps of:
3		receiving a connection request from a client;
4		assigning a thread of execution to process said connection request; and
5		selecting a particular buffer management structure from a plurality of buffer
6		management structures, wherein said plurality of buffer management
7		structures are each associated with a set of data buffers that are used for
8		buffering data to a physical memory unit;
9		wherein the buffer index value is associated with the particular buffer
10		management structure.
1	39.	(Previously Presented) The computer-readable medium of Claim 36, further
2		comprising instructions for performing the steps of:
3		generating log data in response to a request for accessing a resource, wherein said
4		resource represents one or more sets of content that are associated with a
5		network server; and

0		selecting a buffer management structure based on one or more addresses in which
7		said one or more sets of content are stored on said network server.
1	40.	(Previously Presented) The computer-readable medium of Claim 36, further
2		comprising instructions for performing the step of writing log data into said
3		particular data buffer.
1	41.	(Previously Presented) The computer-readable medium of Claim 36, further
2		comprising instructions for performing the steps of:
3		maintaining a plurality of data buffers as an array of available buffers; and
4		in response to detecting that the particular data buffer contains a particular limited
5		amount of free data space, removing said particular data buffer from said
6		array of available buffers.
1	42.	(Previously Presented) The computer-readable medium of Claim 41, wherein the
2		step of removing said particular data buffer from said array of available buffers
3		further comprises linking said particular data buffer into a list of ready-to-write
4		data buffers.
1	43.	(Previously Presented) The computer-readable medium of Claim 42, further
2		comprising instructions for performing the steps of:
3		removing said particular data buffer from said array of available buffers; and
4		storing on a non-volatile storage unit information contained in said particular data
5		buffer.
1	44.	(Previously Presented) The computer-readable medium of Claim 36, further
2	i	comprising instructions for performing the steps of:
3		maintaining a plurality of data buffers as an array of available buffers; and

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•	•	
	4	in response to determining that no data buffer is available in said array of
	5	available buffers for storing said log data, requesting a free data buffer
	6	from a global list of free data buffers.
	1 45.	(Currently Amended) A computer system, comprising:
	2	means for reading a buffer index value that identifies a data buffer that was last
	3	used for buffering data;
	4	means for incrementing the buffer index value;
•	5	means for locating a buffer array entry that is associated with the buffer index
•	6	value;
	7	means for determining, at a particular time, whether the buffer array entry
	8	indicates a particular value;
	9	means for attempting to obtain a lock on a particular data buffer that is associated
	10	with the buffer array entry in response to a determination that the buffer
	11	array entry does not indicate the particular value at the particular time; and
	12	means for incrementing the buffer index value without attempting to obtain a lock
	13	on the particular data buffer in response to a determination that the buffer
	14	array entry indicates the particular value at the particular time.